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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,516	01/07/2005	Ken Ooyachi	7390/84218	5956
42798 EITCH EVEN	7590 01/24/2007	EXAMINER		
FITCH, EVEN, TABIN & FLANNERY P. O. BOX 18415			BUSHEY, CHARLES S	
WASHINGTO	N, DC 20036		ART UNIT PAPER NUMBER	
			1724	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
31 [DAYS	01/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summary		10/520,516	OOYACHI ET AL.	OOYACHI ET AL.			
		Examiner	Art Unit				
		Scott Bushey	1724				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet w	vith the correspondence address				
WHI0 - Exte after - If N0 - Failu Any	IORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES and the may be available under the provisions of 37 CFR 1.13 CSIX (6) MONTHS from the mailing date of this communication. Disperiod for reply is specified above, the maximum statutory period varie to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communi. BANDONED (35 U.S.C. § 133)				
Status							
1) 🔀	Responsive to communication(s) filed on 28 M	arch 2005					
	This action is FINAL . 2b) This action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
-,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims	,,, pa. 10 Quay, 0, 1000 C.	5. 11, 100 0.0. 210.				
4)[Claim(s) <u>1-34</u> is/are pending in the application.						
5 \□	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
	6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to.						
	Claim(s) $\frac{1-34}{2}$ are subject to restriction and/or ϵ	lastian raquirament					
0)[2]	claim(s) 1-54 are subject to restriction and/or 6	election requirement.					
Applicat	ion Papers						
9)[The specification is objected to by the Examine	r.					
10)[The drawing(s) filed on is/are: a) _ acce	epted or b) Objected to	by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correct	ion is required if the drawing	g(s) is objected to. See 37 CFR 1.1	21(d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attache	d Office Action or form PTO-15	2. ·			
Priority (under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents 2. □ Certified copies of the priority documents 3. □ Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in A ity documents have beer I (PCT Rule 17.2(a)).	Application No received in this National Stage	€			
Attachmen		. [a demonstration				
	ce of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date				
3) 🔲 Infon	mation Disclosure Statement(s) (PTO/SB/08)	5) Notice of	Informal Patent Application				
Pape	er No(s)/Mail Date	6) 🔀 Other: <u>JP</u>	2003-141649 not received.				

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Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-17, drawn to an apparatus.

Group II, claims 18-34, drawn to a process.

- 2. The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The claims of Group II lack the connection of the second carbon dioxide gas dissolver to the discharging side of the first carbon dioxide gas dissolver, which is required by the claims of Group I.
- 3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Species A, a single pass dissolver (Fig. 1), and

Species B, a circulating dissolver (Fig. 2).

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

4. The claims are deemed to correspond to the species listed above in the following manner:

Species A: claim 19, and

Species B : claim 20.

The following claims are generic: 1-18, and 21-34.

- The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Species A, and thus the claims specifically directed thereto are incapable of performing a circulating gas dissolving process, as is the specific capability purported to exist by the structure of Species B, and the claims directed thereto.
- 6. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of Application/Control Number: 10/520,516

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record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

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- Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Bushey whose telephone number is 571 272-1153. The examiner can normally be reached on M-Th 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Scott Bushey **Primary Examiner** Art Unit 1724

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